Release B CDR RID Report

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Section **Page** **Figure Table**

Category Name MSS Design
Actionee ECS
Sub Category
Subject End-to-end systems management

Description of Problem or Suggestion:

It is not clear how the various system/processing management tools are supposed to be used to achieve end-to-end systems management.

Originator's Recommendation

Develop operations concepts and scenarios that describe how the management tools are supposed to be used in combination to manage the system. These concepts and scenarios should address:

- What aspects of the management problem for each system element are to be performed with each tool

- How are management of science processing and systems management related in terms of system tools

GSFC Response by: **GSFC Response Date**

HAIS Response by: A. Kirm **HAIS Schedule**

HAIS R. E. Gary/Hood **HAIS Response Date** 6/5/96

The major MSS system management tools are HP OpenView and Tivoli Management Environment (TME). HP Openview discovers the system network topology and provides hardware monitoring and controlling capabilities. When used in conjunction with ECS developed Agents and ECS developed scripts it enables the monitoring and controlling of software components as well. These monitoring capabilities include fault and performance monitoring, and HPOV can forward events of a predefined level to the TME for fault correlation. HPOV also provides life-cycle services for COTS via the proxy agents.

Tivoli enables operating system monitoring and provides COTS administration via Tivoli plus adapter modules. In addition Tivoli provides a uniform Management desktop for launching MSS applications, fault correlation, and enables the monitoring of remote COTS logs. Furthermore, it provides automated software distribution.

In addition, HP Openview and the TME will monitor each other for health status. Tivoli will monitor the health and status of HP OpenView by monitoring the netmon daemon and the OV object database using a Tivoli Plus Module. HPOV will monitor the health and status of Tivoli using a proxy agent.

The relationship between the management of science processing and system management is hierarchical in nature. The science processing (Autosys) is responsible for managing PGEs, while the system management (HPOV) is responsible for managing the science processing service. (i.e. If a PGE fails HPOV does not detect it. Autosys detects PGE failures and manages PGEs, Autosys itself is monitored by HPOV which would detect failed processing components such as CPU's, I/O channels, etc)

Specific scenarios which will address these concepts will be provided in the 609 document

Status **Closed** **Date Closed** **6/20/96** **Sponsor** **Moore**

****** **Attachment if any** ******

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